



BOHMAN150Sequence.txt
SEQUENCE LISTING

<110> Sloning Biotechnology GmbH

<120> Method for the manufacture of nucleic acid molecules

<130> S 10010 PCT

<140> EP 02023385.4

<141> 2002-10-18

<160> 61

<170> PatentIn version 3.1

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<223> any nucleotide

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<223> any nucleotide

<400> 8
actgggnnnn n

11

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17

<210> 10
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16

<210> 11
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<222> (8)..(15)

<223> any nucleotide

<400> 11
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15

<210> 12

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<223> any nucleotide

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17

<210> 13

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<222> (8)..(11)

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<400> 13

gctcttcnnn n

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<222> (7)..(10)

<223> any nucleotide

<400> 14

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<222> (7)..(11)

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11

<210> 17

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<223> any nucleotide

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<222> (7)..(12)

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<222> (7)..(8)

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<211> 8

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<222> (7)..(12)

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<210> 23

<211> 16

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<222> (7)..(16)

<223> any nucleotide

<400> 23
gaggagnnnn nnnnnn

16

<210> 24

<211> 17

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature
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<223> any nucleotide

<400> 24
ggcggannnn nnnnnnn

17

<210> 25
<211> 17
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<222> (7)..(17)
<223> any nucleotide

<400> 25
cagctcnnnn nnnnnnn

17

<210> 26
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<223> any nucleotide

BOHMAN150Sequence.txt

<400> 26
cacctgcnnn nnnnn

15

<210> 27

<211> 27

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<223> splinker oligonucleotide in Fig. 1A and Fig. 3A

<400> 27
gtacgagacg cgcttttgcg cgtctcg

27

<210> 28

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

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<223> 1. anchor oligonucleotide in Fig. 1A and Fig. 3A

<220>

<221> misc_feature

<222> (19)..(19)

<223> biotinylated nucleotide

<400> 28
taccgccgaa gaggcgtttt cgcctcttcg gcg

33

<210> 29

<211> 60

<212> DNA

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<223> Synthetic

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<223> sequence appears in Fig. 1B, Fig. 1C, Fig. 1D and Fig. 3B

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<221> misc_feature

<223> 5'-end and 3'-end are ligated

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<221> misc_feature

<222> (29)..(29)

<223> biotinylated nucleotide

<400> 29
gcgcgtctcg taccgccgaa gaggcgtttt cgcctcttcg gcggtacgag acgcgctttt

60

<210> 30

<211> 33

<212> DNA

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<223> left sequence in Fig. 1E

<400> 30
gcggtacgag acgcgctttt gcgcgtctcg tac

33

<210> 31

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> right sequence in Fig. 1E, Fig. 3C and Fig. 3E

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<222> (16)..(16)

<223> biotinylated nucleotide

<400> 31
cgccgaagag gcgttttcgc ctcttcg

27

<210> 32

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<223> left sequence in Fig. 1F and Fig. 3E

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<222> (19)..(19)

<223> biotinylated nucleotide

<400> 32

cgctatcgaa gaggcgtttt cgcctcttcg ata

33

<210> 33

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> splinker oligonucleotide in Fig. 2A and Fig. 4A

<400> 33

cgagacgcgc ttttgcgcgt ctcgt

25

<210> 34

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

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<221> misc_feature

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<223> 1. anchor nucleotide in Fig. 2A and Fig. 4A

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<221> misc_feature

<222> (21)..(21)

<223> biotinylated nucleotide

<400> 34
ccgtcatacg gatacgcgtt ttcgcgtatc cgtatgacgg a

41

<210> 35

<211> 66

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 2B, Fig. 2C, Fig. 2D and Fig. 4B

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<221> misc_feature

<222> (32)..(32)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 35
gcgcgtctcg tccgtcatac ggatacgcgt tttcgcgtat ccgtatgacg gacgagacgc
gctttt

60

66

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<210> 36

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

<221> misc_feature

<223> left sequence in Fig. 2E, Fig. 2F, Fig. 4C, Fig. 4D and Fig. 4E

<400> 36

cggacgagac gcgcttttgc gcgtctcgtc cgt

33

<210> 37

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> right sequence in Fig. 2E, Fig. 4C and Fig. 4D

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<221> misc_feature

<222> (17)..(17)

<223> biotinylated nucleotide

<400> 37

catacggata cgcgttttcg cgtatccgta tga

33

BOHMAN150Sequence.txt

<210> 38

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

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<221> misc_feature

<223> 2. anchor oligonucleotide in Fig. 2F and Fig. 4E

<220>

<221> misc_feature

<222> (21)..(21)

<223> biotinylated nucleotide

<400> 38

tactcatacg gatacgcgtt ttcgcgtatc cgtatgagta a

41

<210> 39

<211> 96

<212> DNA

<213> Artificial sequence

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<223> sequence appears in Fig. 5A (left of text "Elongation product #1"
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BOHMAN150Sequence.txt

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 39
gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgaaga ggcgttttcg cctcttcggg 60
acggcttacg acgcgtcgcg tacgagacgc gctttt 96

<210> 40

<211> 96

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<213> Artificial Sequence

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<223> sequence appears in Fig. 5A (left of text "Elongation product #2"
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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

BOHMAN150Sequence.txt

<400> 40
gcgcgtctcg gtccggccta cgctagatcg atgccgaaga ggcgttttcg cctcttcggc 60
atcgaactag cgtaggccgg accgagacgc gctttt 96

<210> 41

<211> 69

<212> DNA

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<223> sequence appears in Fig. 5B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #1")

<400> 41
ggacggctta cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
cgtaagccg 69

<210> 42

<211> 69

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 5B (left of text "cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #2")

<400> 42
gcatcgaact agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60

ctagatcga

<210> 43

<211> 27

<212> DNA

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 5C (right sequence left of text "Transition #1")

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<221> misc_feature

<222> (16)..(16)

<223> biotinylated nucleotide

<400> 43

tcccgagacc gcgttttcgc ggtctcg

27

<210> 44

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

<221> misc_feature

<223> Sequence appears in Fig. 5C (right sequence left of text "Transition #2")

BOHMAN150Sequence.txt

<220>

<221> misc_feature

<222> (16)..(16)

<223> biotinylated nucleotide

<400> 44

tgccgagacc gcgttttcgc ggtctcg

27

<210> 45

<211> 96

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F and Fig. 5G (in each case left of text "Elongation block #1")

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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 45

gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgagac cgcgttttcg cggtctcggg

60

acggcttacg acgcgtcgcg tacgagacgc gctttt

96

<210> 46

BOHMAN150Sequence.txt

<211> 96

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F, Fig. 7A (in each case left of text "Elongation block #2") and in Fig. 5H (right of text "Elongation block #2")

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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 46	
gcgcgtctcg gtccggccta cgctagatcg atgccgagac cgcgttttcg cggtctcggc	60
atcgaactag cgtaggccgg accgagacgc gctttt	96

<210> 47

<211> 68

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

BOHMAN150Sequence.txt

<221> misc_feature

<223> sequence appears in Fig. 5G (left of text "Eco31I cut Elongation block"), Fig. 5I (above text "Cut elongation block 1"), Fig. 7B and Fig. 7C (in each case left of text "Cut elongation block #1")

<400> 47
 ggacggctta cgacgcgctcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
 cgtaagcc 68

<210> 48

<211> 68

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<223> sequence appears in Fig. 5H (right of text "Elongated transition anchor"), Fig. 5I (right of text "Cut elongation block 1"), Fig. 7B (left of text "Cut elongation block #2) and Fig. 7D (left of text Cut elongation block #2")

<220>

<221> misc_feature

<222> (37)..(37)

<223> biotinylated nucleotide

<400> 48
 gtccggccta cgctagatcg atgccgagac cgcgttttgc cggctctcggc atcgaactag 60
 cgtaggcc 68

<210> 49

<211> 136

<212> DNA

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BOHMAN150Sequence.txt

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<221> misc_feature

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<221> misc_feature

<222> (67)..(67)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 49	
gcgcgtctcg tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac	60
cgcgtttttcg cggctctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcgcg	120
tacgagacgc gctttt	136

<210> 50

<211> 106

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 6A (left of text "Elongation produce #1"
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<221> misc_feature

<222> (52)..(52)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 50
gcgcgtctcg tacgcgacgc gtcgataagc cgtctcatat ggatacgcgt tttcgcgtat 60
ccgtatgaga cggcttatcg acgcgtcgcg tacgagacgc gctttt 106

<210> 51

<211> 106

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 6A (left of text "Elongation product #2)

<220>

<221> misc_feature

<222> (52)..(52)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

BOHMAN150Sequence.txt

<400> 51
gcgcgtctcg gtccggccta cgctgagatc gatgccatac ggatacgcgt tttcgcgtat 60
ccgtatggca tcgaactcag cgtaggccgg accgagacgc gctttt 106

<210> 52

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 6B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and Fig. 6C (left sequence left of text "Transition #1")

<400> 52
gacggcttat cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
cgataagccg tct 73

<210> 53

<211> 25

<212> DNA

<213> Artificial sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 6C (left sequence left of text "Transition #1")

<220>

<221> misc_feature

<222> (13)..(13)

<223> biotinylated nucleotide

<400> 53
cgagaccgcg ttttcgcggt ctcga

25

<210> 54

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 6B (left of text "Cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. C (left of text "Transition #2")

<400> 54
catcgaactc agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60
ctgagatcga tgc 73

<210> 55

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 6C (right sequence left of text "Transition #2")

BOHMAN150Sequence.txt

<220>

<221> misc_feature

<222> (13)..(13)

<223> biotinylated nucleotide

<400> 55

cgagaccgcg ttttcgcggt ctcgg

25

<210> 56

<211> 98

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 6D (left of text "Elongation block #1")

<220>

<221> misc_feature

<222> (48)..(48)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 56

gcgcgtctcg tacgcgacgc gtcgataagc cgtctcgaga ccgcgttttc gcggtctcga

60

gacggcttat cgacgcgctg cgtacgagac gcgcgtttt

98

<210> 57

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<211> 98

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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<221> misc_feature

<223> sequence appears in Fig. 6D (left of text "Elongation block #2")

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<221> misc_feature

<222> (48)..(48)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 57
gcgcgtctcg gtccggccta cgctgagatc gatgccgaga ccgcgttttc gcggtctcgg 60
catcgaactc agcgtaggcc ggaccgagac gcgctttt 98

<210> 58

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<223> sequence appears in Fig. 7A (left of text "Elongation block #1")

<220>

<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 58
cgccgtctcg ggacggctta cgacgcgtcg cgtacgagac ccgcttttgc gggctctgga 60
cgcgacgcgt cgtaagccgt cccgagccgg cgtttt 96

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

<221> misc_feature

<222> (1)..(4)

<223> single-stranded overhang, not complemented by complementary strand

<220>

<221> misc_feature

<222> (5)..(20)

<223> double-stranded nucleic acid, complemented by SEQ ID No. 48. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (GCAT)

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<400> 59
ggacggctta cgacgcgtcg

20

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (1)..(4)

<223> single-stranded overhang, not complemented by complementary strand

<220>

<221> misc_feature

<222> (1)..(4)

<223> double-stranded nucleic acid, complemented by SEQ ID No. 47. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (CAGG)

<400> 60
tacgcgacgc gtcgtaagcc

20

<210> 61

<211> 108

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

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BOHMAN150Sequence.txt

<221> misc_feature

<223> sequence appears in Fig. 7D (right of text "Complementary overhang for subsequent transposition step")

<220>

<221> misc_feature

<222> (57)..(57)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 61
tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac cgcgttttcg 60
cgggtctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcg 108